

What is claimed is:

- 1           1.     An apparatus for use in a wellbore, comprising:  
2                     an element formed of a superplastic material to perform a predetermined  
3     downhole task.
- 1           2.     The apparatus of claim 1, further comprising a component including a seal  
2     engageable with the element.
- 1           3.     The apparatus of claim 1, further comprising a component including an  
2     anchor actuatable by the element.
- 1           4.     The apparatus of claim 1, wherein the element is selected from the group  
2     consisting of a casing, a liner, a tubing, and a pipe.
- 1           5.     The apparatus of claim 1, wherein the element includes a sand screen.
- 1           6.     The apparatus of claim 1, further comprising a shock absorber including  
2     the element.
- 1           7.     The apparatus of claim 1, further comprising a releasable connector  
2     mechanism including the element.
- 1           8.     The apparatus of claim 1, further comprising an explosive component  
2     including the element.
- 1           9.     The apparatus of claim 8, wherein the explosive component includes a  
2     shaped charge.
- 1           10.    The apparatus of claim 1, further comprising a weak point connector  
2     including the element.

1 11. The apparatus of claim 1, further comprising a heating device to heat the  
2 element to a temperature sufficient to cause the element to exhibit superplastic behavior.

1 12. An apparatus comprising:  
2 a flowable element; and  
3 a deformable element adapted to be expanded by flowing the flowable  
4 element.

1 13. The apparatus of claim 12, wherein the flowable element includes a  
2 eutectic material.

1 14. The apparatus of claim 12, wherein the flowable element is selected from  
2 the group consisting of a eutectic material, a fusible alloy, a blocking alloy, solder, and a  
3 material containing bismuth.

1 15. The apparatus of claim 12, wherein the flowable element contains  
2 bismuth.

1 16. The apparatus of claim 15, wherein the flowable element includes a  
2 bismuth alloy.

1 17. The apparatus of claim 12, wherein the deformable element includes a  
2 sleeve.

1 18. The apparatus of claim 12, wherein the deformable element includes a  
2 superplastic material.

1 19. The apparatus of claim 18, wherein the flowable element melts at a  
2 temperature close to a temperature at which the superplastic material exhibits superplastic  
3 behavior.

1           20.     The apparatus of claim 12, further comprising a sealing element, wherein  
2 the deformable element is adapted to translate the sealing element into engagement with a  
3 downhole structure.

1           21.     The apparatus of claim 20, comprising a plug.

1           22.     The apparatus of claim 20, comprising a packer.

1           23.     The apparatus of claim 20, comprising a patch.

1           24.     The apparatus of claim 12, further comprising an anchor element, wherein  
2 the deformable element is adapted to translate the anchor element into engagement with  
3 another structure.

1           25.     A method of installing a tubular structure into a wellbore, comprising:  
2                 running the tubular structure having a reduced diameter into the wellbore;  
3                 activating a heating element to heat at least a portion of the tubular  
4 structure to enable the tubular structure to exhibit a highly deformable characteristic  
5 while maintaining structural integrity; and  
6                 expanding the diameter of the tubular structure.

1           26.     A method of performing a task in a wellbore, comprising:  
2                 heating an element to a temperature such that the element exhibits  
3 superplastic behavior; and  
4                 deforming the element.